



REC 15-403

Knollwood Energy of MA LLC
P.O. Box 30
Chester, New Jersey 07930

September 17, 2015

NHPUC 21SEP15PM8:48

Debra A. Howland
Executive Director
New Hampshire Public Utilities Commission
21 South Fruit Street, Suite 10
Concord, NH 03301-2429

Dear Ms Howland,

Enclosed please find the application for the Hoag system to be part of the Knollwood Energy of MA LLC (NH-II-13-089) Class II Photovoltaic aggregation for New Hampshire Renewable Energy Certificates (RECs) generated from customer-sited sources, pursuant to New Hampshire Code of Administrative Rules Puc 2506.

Customer and Facility Information

Ryan Hoag
102 Streeter Hill
W. Chesterfield, NH 03608
angelahoag@yahoo.com
603-313-9866

The new Nepool GIS ID # for this facility is: NON 54647. Also enclosed are the Simplified Process Interconnection Application and Service Agreement, Certificate of Completion and NH Owner Statements. An electronic version has been sent to executive.director@puc.nh.gov.


Please do not hesitate to contact me if you have any questions regarding this application.

Thank you for your consideration,

Linda Modica
New England REC Operations Manager
Knollwood Energy of MA LLC
973.879.7826
linda@knollwoodenergy.com

Enclosures (3)

New Hampshire Public Utilities Commission		This section for PUC use only:			
		REC#			
Draft Class I or II REC Eligibility Application For Solar Customer-Sited Sources 100 Kilowatts Or Less					
1. Class I <input type="checkbox"/>	Class II <input checked="" type="checkbox"/>	GIS Facility Code	NON 54647	2. This facility is part of an aggregation.	yes <input checked="" type="checkbox"/> no <input type="checkbox"/>
GIS contact info is provided below					
3. If yes to #2., the facility is part of the Knollwood Energy of MA LLC aggregation.					
To qualify as a REC eligible facility, PUC 2505.02 (b) requires the source to provide the following information:					
Contact Information					
	Name	Address	City	State	ZIP
Facility Owner	Ryan Hoag	102 Streeter Hill	W. Chesterfield	NH	03608
Phone 1	603-313-9866	Phone 2		Email	angelahoag@yahoo.com
Facility Location	(If facility is named)		(if different than owner address)		
Mailing Address	(if different than owner address and/or facility location)				
Application filed by:					
Business Name	Knollwood Energy of MA LLC	PO Box 30	Chester	NJ	07930
Contact	Linda Modica				
Phone 1	908-879-7826	Phone 2		Email	linda@knollwoodenergy.com
Facility Operator	(complete only if a separate operator manages the facility)				
Phone 1		Phone 2		Email	
Installer Company	Solar Dave LLC	417 Spofford Road	Westmoreland	NH	03467
Installer Contact	David Wirth				
Phone 1	603-313-8671	Phone 2		Email	solardave4@gmail.com
Electrician	Josh Weston Cheshire County Electric	P.O. Box 150	Winchester	NH	03471
Phone 1		License #	6930-m	Email	n/a
Equipment Vendor	(If not provided through the installer)				
Phone 1		Phone 2		Email	
Independent Monitor (IM) Name		Paul Button		To obtain a GIS Facility Code contact James Webb, Registry Administrator 408.517.2174, jwebb@apx.com	
IM Company Name		EAU-NH			
Equipment Information					
	Manufacturer	Quantity	Model # (if available)	Rated Output/unit	Total Rated Capacity
Panels	Phono	33	PS250P	0.250	8.3 (DC)
Inverter(s)	Fronius	1	7600 UNI	7.60	7.5 (AC)
Meter	GE	FM 2S	Utility Project ID #	Initial date of operation	(mm/dd/year) 11/12/13
To be completed by the owner. Aggregators may include the owner sign-off via email or letter.					
I agree <input type="checkbox"/>	The information provided on this application for New Hampshire Renewable Energy Certificate eligibility is accurate.				
The project described in this application will meet the metering requirements of Puc 2506 including:					
I agree <input type="checkbox"/>	Electricity generation in megawatt hours shall be reported to the GIS quarterly with a statement that the submission is accurate by the owner of the source, the IM, or a designated representative.				
I agree <input type="checkbox"/>	A revenue quality meter is used to measure the electricity generated.				
I agree <input type="checkbox"/>	The facility owner has certified to the IM that the meter operates according to manufacturing standards.				
I agree <input type="checkbox"/>	The meter shall be maintained according to the manufacturer's recommendations.				

<input type="checkbox"/>	
I agree	The project is installed and operating in conformance with applicable building codes.
<input type="checkbox"/>	
included	A copy of the facility's interconnection agreement is attached.
X	
The Undersigned declares under penalty of perjury that the information provided on this application is accurate.	
<div style="text-align: right;">/  9/17/15 /</div> <div style="text-align: right;">Typed signature required</div>	
Contact Barbara Bernstein at Barbara.bernstein@puc.nh.gov or 603-271-6011 with questions and comments.	

New Hampshire PUC REC Certification Application Owner Statements

The information provided on this application for New Hampshire Renewable Energy Certificate eligibility is accurate to the best of my knowledge and I authorize Knollwood Energy to act on my behalf in filing said application.

The project described in this application will meet the metering requirements of PUC 2506 including:

RH
RH

Electricity generation in megawatt hours shall be reported to the GIS quarterly with a statement that the submission is accurate by the owner of the source, the independent monitor, or a designated representative.

RH
RH

A revenue quality meter is used to measure the electricity generated.

RH
RH

The facility owner has certified to the independent monitor that the meter operates according to manufacturing standards.

RH
RH

The meter shall be maintained according to the manufacturer's recommendations.

RH
RH

The project is installed and operating in conformance with applicable building codes.

RH
RH

A copy of the facility's interconnection agreement is attached.

Ryan Hoag

Printed Name of signature owner

Ryan Hoag
Ryan Hoag (Sep 11, 2015)

Signature of system owner

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
INTERCONNECTION STANDARDS FOR INVERTERS
SIZED UP TO 100 KVA

RECEIVED
OCT 24 2013

Simplified Process Interconnection Application and Service Agreement BY: _____

Date Prepared: 10/22/13

Contact Information:

Legal Name and Address of Interconnecting Customer (or, Company name, if appropriate)

Customer or Company Name (print): Ryan Hoag

Contact Person, if Company: _____

Mailing Address: 102 Streeter Hill Rd

City: West Chesterfield State: NH Zip Code: 03466

Telephone (Daytime): 313-9866 (Evening): _____

Facsimile Number: _____ E-Mail Address: ryan@patrauwsonconstruction.com

Alternative Contact Information (e.g., System installation contractor or coordinating company, if appropriate):

Name: David Wirth (Perkins Home Center)

Mailing Address: P.O. Box 430 Route 9

City: West Chesterfield State: NH Zip Code: 03466

Telephone (Daytime): 603-256-6844 (Evening): _____

Facsimile Number: 256-85112 E-Mail Address: dwirth@perkinshomecenter.com

Electrical Contractor Contact Information (if appropriate):

Name: Cheshire County Electric

Mailing Address: P.O. Box 145

City: Winchester State: NH Zip Code: 03470

Telephone (Daytime): 239-4989 (Evening): _____

Facsimile Number: _____ E-Mail Address: weston4e@necr.com

STREETER HILL ROAD

Facility Site Information:

Facility (Site) Address: 102 Streeter Hill

City: West Chesterfield State: NH Zip Code: 03466

Electric

Service Company: PSNH Account Number: 56402435077 Meter Number: 643753765✓

Non-Default Service Customers Only:

Competitive Electric

Energy Supply Company: _____ Account Number: _____

(Customer's with a Competitive Energy Supply Company should verify the Terms & Conditions of their contract with their Energy Supply Company.)

Facility Machine Information:

Generator/ ☒ Model Name & ☒

Inverter Manufacturer: Fronius Number: 7500 uni Quantity: 1

Nameplate Rating: 7500 (kW) (kVA) (AC Volts) Phase: Single ☐ Three ☐

System Design Capacity: 7500 (kW) (kVA) Battery Backup: Yes ☐ No ☒

Net Metering: If Renewably Fueled, will the account be Net Metered? Yes ☒ No ☐

Prime Mover: Photovoltaic ☒ Reciprocating Engine ☐ Fuel Cell ☐ Turbine ☐ Other _____

Energy Source: Solar ☒ Wind ☐ Hydro ☐ Diesel ☐ Natural Gas ☐ Fuel Oil ☐ Other _____

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
INTERCONNECTION STANDARDS FOR INVERTERS
SIZED UP TO 100 KVA

Simplified Process Interconnection Application and Service Agreement

Inverter-based Generating Facilities:

✓ UL 1741 / IEEE 1547.1 Compliant (Refer To Part Puc 906 Compliance Path For Inverter Units, Part Puc 906.01 Inverter Requirements)
Yes ☒ No ☐

The standard UL 1741.1 dated May, 2007 or later, "Inverters, Converters, and Controllers for Use in Independent Power Systems," addresses the electrical interconnection design of various forms of generating equipment. Many manufacturers choose to submit their equipment to a Nationally Recognized Testing Laboratory (NRTL) that verifies compliance with UL 1741.1. This term "Listed" is then marked on the equipment and supporting documentation. *Please include, any documentation provided by the inverter manufacturer describing the inverter's UL 1741/IEEE 1547.1 listing.*

External Manual Disconnect Switch:

An External Manual Disconnect Switch shall be installed in accordance with 'Part Puc 905 Technical Requirements For Interconnections For Facilities, Puc 905.01 Requirements For Disconnect Switches and 905.02 Disconnect Switch.'

✓ Yes ☐ No ☒

Location of External Manual Disconnect Switch: _____

Project Estimated Install Date: 11/2/13 Project Estimated In-Service Date: 11/4/13

Interconnecting Customer Signature:

I hereby certify that, to the best of my knowledge, all of the information provided in this application is true and I agree to the **Terms and Conditions for Simplified Process Interconnections** attached hereto:

✓ Customer Signature: [Signature] Title: owner Date: 10/10/13

Please include, a one-line and/or three-line drawing of proposed installation

For PSNH Use Only

Approval to Install Facility:

Installation of the Facility is approved contingent upon the Terms and Conditions For Simplified Process Interconnections of this Agreement, and agreement to any system modifications, if required.

Are system modifications required? Yes ☐ No ☒ To be Determined ☐

Company Signature: [Signature] Title: SR. ENGINEER Date: 10-24-13

PSNH Application Project ID#: _____

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
INTERCONNECTION STANDARDS FOR INVERTERS
SIZED UP TO 100 KVA (Continued)

RECEIVED
NOV 12 2013
SESD

Exhibit B - Certificate of Completion for Simplified Process Interconnections

Installation Information:

☐ Check if owner-installed

Customer or Company Name (print): RYAN and ANGELA HOAG
Contact Person, if Company: RYAN HOAG
Mailing Address: 102 Streeter Hill Road
City: West Chesterfield State: NH Zip Code: 03466
Telephone (Daytime): (603) 313-9866 (Evening): (603) 313-9866
Facsimile Number: _____ E-Mail Address: RYAN@PATRAWSONCONSTRUCTION.COM

Address of Facility (if different from above): _____
City: _____ State: _____ Zip Code: _____

Generation Vendor: Perkins Home Center Contact Person: David White

I hereby certify that the system hardware is in compliance with Puc 900.

Vendor Signature: _____

Date: 11/9/13

Electrical Contractor's Name (if appropriate): Chester County Electric
Mailing Address: P.O. Box 145
City: Winchester State: NH Zip Code: 03470
Telephone (Daytime): (603) 238-4985 (Evening): _____
Facsimile Number: _____ E-Mail Address: Weston4@nerr.com
License number: 6930 m

Date of approval to install Facility granted by the Company: 10/25/13 Installation Date: _____

Application ID number: N2814

Inspection:

The system has been installed and inspected in compliance with the local Building/Electrical Code of

Chesterfield
(City/County)

Signed (Local Electrical Wiring Inspector, or attach signed electrical inspection): _____

Name (printed): Chris Greenwood

Date: 11/12/13

Customer Certification:

I hereby certify that, to the best of my knowledge, all the information contained in this Interconnection Notice is true and correct. This system has been installed and shall be operated in compliance with applicable electrical standards. Also, the initial start up test required by Puc 905.04 has been successfully completed.

Customer Signature: Ryan Hoag

Date: 11/9/13